## A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A63B57/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $\ensuremath{\text{IPC}}\xspace 7 - A63B$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

Category *	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	GB 2 364 924 A (HILLAN GRAHAM CARLYLE) 13 February 2002 (2002-02-13) page 5, line 22 -page 6, line 13; figures 1-4 abstract	1-11
Х	US 5 248 144 A (ULLERICH SCOTT R) 28 September 1993 (1993-09-28) column 3, line 14 - line 68; figures 1-5	1-11
Х	US 5 720 677 A (RUDDUCK DICKORY) 24 February 1998 (1998-02-24) column 4, line 23 - line 37; figures 10,11	1-8,10, 11
Х	GB 519 193 A (ALBERT ARTHUR CANEY; ETHEL GLADYS CANEY) 19 March 1940 (1940-03-19) page 2, line 103 - line 122; figure 3	1-10
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Y Further documents are listed in the continuation of box C.	Palent family members are listed in annex.		
Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filing date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but	'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.		
later than the priority date claimed  Date of the actual completion of the international search	*&* document member of the same patent family  Date of malling of the international search report		
10 March 2004	17/03/2004		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Oelschläger, H		

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	PCT/ us	03/04926	

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